

**SECTION 09 65 00 40**

**RESILIENT FLOORING ADHESIVE SYSTEM**

CSI 3-PART **SHORT-FORM** GUIDE SPECIFICATION USE  
FOR OUTLINE OR DD SPECIFICATION ISSUES.

EDIT TO SUIT PROJECT

PART 1 - GENERAL

1.01 SUMMARY

- A. Work of this Section consists of EnviroSTIX Pre-Applied Poly-Acrylic Adhesive bonding system for resilient flooring, and accessories including, but not limited to:
  - 1. Base King, LLC – EnviroSTIX Pre-Applied Poly-Acrylic Pre-Cured Zero VOC Adhesive System
    - a. Adhesive Application: Flooring materials must be sent to Base King LLC, 137 Lower Dug Gap Road, Dalton, GA 30720 to attach adhesive to back of flooring.
  - 2. Primer – EnviroSTIX Primer/Sealer
  - 3. Accessories
  - 4. Substrate Preparation
  - 5. Substrate Testing
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to the following:
  - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 General Requirements, Specifications Sections, apply to this Section.

1.02 ADMINISTRATIVE REQUIREMENTS

- A. Coordination per DIVISION 01, and as follows:
  - 1. Coordinate concrete slab or concrete topping finish per DIVISION 03, and as required by DIVISION 09 finish flooring material manufacturer.
  - 2. Coordinate wood-based panel underlayment per DIVISION 06, and as required by DIVISION 09 finish flooring material manufacturer.

1.03 SUBMITTALS

- A. Product Data per DIVISION 01: Submit manufacturer's printed descriptions of materials, preparation instructions and installation methods.
- B. Quality Assurance Submittals per DIVISION 01: Test and Evaluation Reports, and Qualification Statements.

NOTE: Edit LEED Requirements below to suit project.

- C. Sustainable Design (USGBC [LEED®](#)) Submittals: Submit the following in accordance with the LEED requirements in DIVISION 01:
1. LEED Credit IEQ, Indoor Environmental Quality. Submit completed LEED 2009-NC v.3 Submittal Templates and required paperwork as follows:
    - a. IEQ Credit 4 - Low-Emitting Materials: **Adhesive**, Flooring, and Floor Coating Finish
      - 1) IEQ Credit 4.1 - **Adhesives** and **Sealants**: Adhesive to comply with California's
      - 2) South Coast Air Quality Management District (SCAQMD) [Rule 1168 \(< 50 g/l\)](#).
      - 3) IEQ Credit 4.2 - Paints and Coatings: Floor coatings to comply with SCAQMD [Rule 1113](#) requirements (<100g/l).
- D. Closeout Submittals per DIVISION 01: Operation & Maintenance Data, Executed Warranty Documentation, and Record Documents.

**NOTE: Edit LEED Requirements below to suit project.**

1. Sustainable Design Closeout Documentation: Submit completed USGBC LEED® Submittal [Worksheet Templates](#) for the following credits:
  - a. IEQ Credit 4.1
  - b. IEQ Credit 4.2

#### 1.04 QUALITY ASSURANCE

- A. Qualifications:
1. EnviroSTIX Pre-Applied Poly-Acrylic Adhesive System:
    - a. Installer / Applicator has received manufacturer training in application of EnviroSTIX Adhesive System with a minimum five (5) years of successful in-service performance and experience with installation of similar size and scope.
    - b. Provide 3 recent project references.
  2. Testing Agency meeting ISO/IEC Standard 17025 or ASTM E699 and ASTM E329.
- B. Source Limitations: Obtain pre-applied adhesive system through one source from a single manufacturer, and secondary materials from source recommended by manufacturer of primary materials.

**NOTE: Edit sustainability standards and certifications below to suit project.**

- C. Sustainability Standards and Certifications:
1. Adhesive and Sealant VOC Limits: According to South Coast Air Quality Management District [Rule 1168](#).
  2. VOC Limits: As tested using U.S. EPA Reference Test Method 24 and in accordance with SCAQMD [Rule 1113](#), SCAQMD [Rule 1168](#), BAAQMD [Regulation 8, Rule 51](#), and California Air Resources Board (CARB).

NOTE: Edit field samples mockup requirement to suit project.

NOTE: Installed field samples mockups are recommended to test substrate preparation, provide in-situ workmanship benchmark, and demonstrate system performance and compatibility between finish flooring and adhesive system.

D. Field Samples per DIVISION 01:

1. Provide field samples, dry laid, to demonstrate aesthetic effects of materials in situ, assisting the Architect and Owner in making final selections
2. Provide field samples, installed, to demonstrate aesthetic effects and set quality standard benchmarks for materials and execution to include transitions between finishes and expansion joint covers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Delivery, Storage and Handling per industry guidelines, product manufacturer guidelines, and DIVISION 01 requirements.

1.06 FIELD CONDITIONS

- A. Conditions and Measurements: Visit jobsite to verify installation conditions and measurements.

1. Environmental Conditions shall be in accordance with manufacturer's recommendations for each system component, and DIVISION 01 requirements.

1.07 WARRANTY

- A. Adhesive Bond Warranty: Provide manufacturer's **ten (10)** year non-prorated limited bond warranty including flooring materials and labor commencing on the date of purchase. Refer to current [limited warranty](#) for complete terms and conditions.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Manufacturer List: Subject to compliance with requirements, provide pre-applied adhesive products by the following:

1. Base King, LLC, 137 Lower Dug Gap Road SW, Dalton, GA 30720-9272; Telephone: 888-428-3106; Fax: 706-278-2605; E-mail: [info@baseking.com](mailto:info@baseking.com); website: [www.baseking.com](http://www.baseking.com)
2. Substitution Limitations: Manufacturers of equivalent products beyond those listed above shall not be considered.

B. Product Options

1. Adhesive: EnviroSTIX Pre-Applied Poly-Acrylic Adhesive
  - a. Adhesive Application: Flooring materials must be sent to Base King LLC, 137 Lower Dug Gap Road, Dalton, GA 30720 to attach adhesive to back of flooring.
2. Primer: EnviroSTIX Primer/Sealer

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- a. Primer/Sealer: Application of Primer/Sealer is required to provide consistent optimal bonding surface for EnviroSTIX adhesive system.
3. Accessories
  - a. Underlayment leveling compound per SECTION 035416
  - b. Expansion joints per SECTIONS 079200 and 079513

## 2.02 DESCRIPTION

- A. Base King EnviroSTIX Adhesive is a Pre-Applied Pre-Cured VOC-Free and Halogen Free Poly-Acrylic Adhesive system emitting no hazardous fumes or odors. Provides intended use of finish floor immediately after installation and maintains bond up to 99.0% RH eliminating the need for moisture mitigation systems.

NOTE: Coordinate and edit below to the correct LEED\_Version and RATING Level.

B. Sustainability Characteristics

1. USGBC LEED Rating: Comply with project requirements intended to achieve a LEED 2009-NC v.3 Rating, as measured and documented according to the USGBC LEED® Green Building Rating System.
2. Applicable LEED® Credits: Performance requirements of the following LEED® Categories and Credits apply to this Section and are met as follows:
  - a. IEQ Credit 4.1, Low-Emitting Materials: **Adhesives** and Sealants
    - 1) Poly-acrylic Pre-Applied Adhesive – **EnviroSTIX** VOC: **0 g/L**
  - b. IEQ Credit 4.2, Low-Emitting Materials: Paints and Coatings
    - 1) Primer – EnviroSTIX Primer/Sealer VOC: 0 g/L

## 2.03 MATERIALS

A. Base King LLC Pre-Applied Adhesive System:

1. EnviroSTIX Adhesive – Solvent-free, low odor poly-acrylic, heavy-duty adhesive as provided for bonding indoor & outdoor (exterior) flooring installations over porous and non-porous substrates, areas that are subject to top down water, freezer cases, and areas exposed to extremes of temperature. Suitable for extreme moisture conditions in concrete substrates up to 99.0% RH tested in accordance with ASTM F2170 and/or 18.0 pounds MVER tested in accordance with ASTM F1869 eliminating need for moisture mitigation.

## 2.04 ACCESSORIES

- A. Leveling and Patching Compound: Schonox SL Trowelable or Schonox ZM or ZM Rapid pourable (self leveling) latex-modified, or other moisture resistant Portland cement based formulation approved by adhesive and floor covering manufacturer for applications indicated. Provided under DIVISION 03.

## PART 3 - EXECUTION

### 3.01 FIELD CONDITIONS

- A. Conditions and Measurements:

1. Visit jobsite to verify installation conditions and floor measurements.
2. Ambient Conditions per manufacturer's written recommendations, DIVISION 01, and as follows:
  - a. Substrate shall be flat, smooth, clean and dry meeting all moisture tests passing manufacturer's written requirements.
3. Environmental Limitations:
  - a. Do not deliver materials or being install until building is enclosed, wet work complete, and HVAC system is operating and consistently maintaining temperature and relative humidity (RH) at occupancy levels for a minimum of (7) days and preferably 2-3 weeks in accordance with manufacturer's recommendations.
  - b. Acclimate floor finish materials in accordance with manufacturer's recommendations or for a minimum of 48 hours in advance of installation.

**WARNING: Use of portable heaters may cause product failure.**

### 3.02 EXAMINATION, PREPARATION AND INSTALLATION

- A. Examination, preparation, and installation per floor finish product manufacturer's and adhesive manufacturer's current instructions, industry guidelines, DIVISION 01, and as follows:
  1. Acceptance and Conditions: Carefully examine installation areas with Installer/Installation Contractor present, for compliance with requirements affecting Work performance.
    - a. Verify all relevant jobsite conditions to include at a minimum:
      - 1) All jobsite measurements to confirm materials requirements
      - 2) Jobsite ambient environmental conditions meet manufacturer requirements
      - 3) Substrates are clean and in compliance with all manufacturer requirements.
      - 4) All occupants and construction trades have vacated the space prior to and for the duration of the installation.
      - 5) Proper lighting and ventilation are in place and operational to complete installation.
    - b. Verify conditions and test substrates as recommended to meet project and manufacturer requirements.
    - c. Prepare substrates to ensure proper adhesion of resilient flooring system per adhesive manufacturer's written instructions.
    - d. Proceed with installation only after unsatisfactory conditions have been corrected.
  2. Expansion Joints: Locate movement joints where indicated prior to installation of resilient flooring and use appropriate expansion joint cover.
  3. Install resilient flooring per finish flooring manufacturer's current installation guide and in accordance with the Adhesive manufacturer's [Installation Guide](#) to include:
    - a. Complete removal of old adhesive residues and ALL surface contaminants including curing compounds by mechanical methods only. **DO NOT USE SOLVENT (ORGANIC OR INORGANIC) ADHESIVE REMOVERS.**
    - b. Use Schonox SL for trowel applied substrate smoothing and leveling or Schonox ZM or ZM Rapid for self leveling or other surface preparation materials recommended by manufacturer. For projects with elevated moisture levels only use moisture resistant surface preparation materials recommended by manufacturer.
    - c. Prime clean, smooth dry surface using adhesive manufacturer's recommended Primer/Sealer. Allow to completely dry before proceeding with installation and

between coats when required. Apply second coat of Primer/Sealer when RH level is 95% or above.

- d. Roll floor immediately after installation with 100 lb. floor roller in both directions.
- e. Heat weld seams immediately after final rolling.
- f. Allow immediate use of flooring upon completion of installation.

### 3.03 FIELD QUALITY CONTROL

- A. Site Tests and Inspections in accordance with DIVISION 01: Inspect floor installation for non-conforming work including lack of adequate adhesion and indications of improper substrate preparation.

### 3.04 CLEANING, MAINTENANCE AND PROTECTION

- A. Provide Progress Cleaning, Final Cleaning and Initial Maintenance in accordance with floor finish manufacturer's maintenance guide, DIVISION 01 requirements, and the following:
  1. Allow immediate use of flooring.
  2. Provide surface protection for installed finish flooring before owner's acceptance.
  3. Provide waste management and disposal in accordance with DIVISION 01 requirements.
  4. Permit routine cleaning as soon as installation is complete.

### 3.05 CLOSEOUT ACTIVITIES

- A. Substantial Completion Requirements per DIVISION 01 requirements: Closeout procedures, demonstration and training, and sustainable design closeout documentation.
- B. Correct Non-Conforming Work per General Conditions, and acceptance of the Architect or Owner's Representative.

END OF SECTION

**NOTE: Be sure to obtain the latest version of this Guide Specification before editing.**

**This Guide Specification must be modified reflecting the projects specifications before use.**

**The professional stamping and the contracting parties of the Contract Documents are responsible for the accuracy of project specifications, including any use of this EnviroSTIX Pre-Applied Adhesive System Guide Specification.**

**BASE KING LLC SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.**